

PN - JP8133923 A 19960528

PD - 1996-05-28

PR - JP19940290360 19941101

OPD - 1994-11-01

TI - EXPELLENT FOR APHIDS

IN - HARA MASAHIKO; SHIRAKI MAYUMI; ONO MASANOBU; SETO RYUTA; OKADA FUMIO

PA - MITSUI NORIN KK

IC - A01N65/00

TI - Aphids controlling agent - comprises essential oil of laurel dissolved in alcohol

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PA - (MITS-N) MITSUI NORIN KK

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AB - J08133923 Agent contains essential oil of laurel for agricultural and horticultural plants.

- Essential oil of laurel is dissolved in an alcohol (e.g. MeOH and EtOH) at concns. of 1-70, pref. 3-20%, The compsns. are sprayed at concns. of 0.1-5.0 pref. 0.1-2.0%.

- ADVANTAGE - Control of aphids without chemical injury with effect lasting for 5-7 days.

- In an example, a compsn. composed of 1% of essential oil of laurel, 5% of EtOH, 94% of water and surfactant was sprayed on *Toxoptera aurantii* Boyer de Fonscolombe and complete control was obtd. after 24 hrs. Similar control of about 98% or over was obtd. at concns. of 0.5 and 1.0% against *Tetranychus kanzawai* Kishida.(Dwg.0/0)

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IN - HARA MASAHIKO; SHIRAKI MAYUMI; ONO MASANOBU; SETO RYUTA; OKADA FUMIO

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TI - EXPELLENT FOR APHIDS

AB - PURPOSE: To obtain a chemical for exterminating aphids, comprising a laurel oil obtained by subjecting laurel to steam distillation as an active ingredient, by dissolving the laurel oil in a solvent useful for a food additive or food processing or improving its solubility with a surfactant and diluting it with water.

- CONSTITUTION: Leaves and branches of laurel are dried, ground and subjected to steam distillation to give a laurel oil. The obtained laurel oil is dissolved in a proper solvent such as ethanol and optionally diluted with water properly to give an expellent for aphids. Since the laurel oil contains cineole, eugenol, etc., a leaf oil of *Cercidiphyllum japonicum* Sieb et Zucc or a clove oil containing these components can be used. The expellent for aphids is effective for aphids living in edible crops, vegetables, persimmon, fruit trees and trees for appreciation. The expellent for aphids is suitably applicable to aphids such as *Toxopetra autantii* living in vegetables such as Japanese radish or *Brassica Rapa* var. *pervides* (a kind of Chinese cabbage). The expellent is also effective for acarids, slugs and plant pathogenic filamentous fungi. Agricultural products to which the expellent for aphids is applied have no injury.

I - A01N65/00